



# INSTRUCTIONS for Water Use Measurement Forms

## OPEN CHANNEL FLOW

Fill out **one Water Use Measurement Form No. 2 – Open Channel Flow** for each device measuring an open channel system. For multiple diversions measuring one water right, please identify the diversions by the name or number you use for the diversion.

### Data on your water use under your water right

- **Recording from staff gages:** Enter the stage readings for the initial start date (e.g. January 1 or 2) and for each subsequent recording. **Please check the appropriate units and fill in the date.** The staff gage reading shows the depth of water or “stage” above a certain point. That reference point is typically the bottom of the flume or base of the weir. A staff gage is typically read in feet or tenths of feet and is proportionate to the flow through the weir, flume or other device. All weirs, ramp flumes, etc., have a rating curve developed for a specific diversion or the design of the flume. Compare the reading from the staff gauge to the rating curve and record how much water is being diverted. Most rating curves are in cubic feet per second (cfs), so the amount being diverted would be recorded in cfs.
- **Flow:** Enter the flow that corresponds to the stage recorded from reading the staff gage. Reasonable effort should be made to take this measurement at a time when demand is close to its maximum for each recording interval. **Please check the appropriate units.**
- **Monthly volume:** Fill in the total volume used during the month based on the readings collected from the measuring device. If you record weekly volumes on the reporting form(s) provided by Ecology, and you send in the form with those readings for your report, the calculation of total volume can be done automatically when your data is entered into the database. If not, users will have to perform the calculations. **Please check the appropriate units.**
- **Total annual volume:** Fill in the total amount of water used during the year. If the reporting form from Ecology is used for recording and you send in the form with those readings for your report, then this calculation can also be performed when your data is entered into the database. Otherwise, users will have to perform the calculations. **Please check the appropriate units.**
- **Peak instantaneous flow:** Peak instantaneous flow is the highest measurement taken during a recording period. Fill in the highest peak instantaneous flow that occurred during the last year. *If you use the reporting form(s) from Ecology for recording, then that calculation can be performed when your data is entered into the database.* Also, weekly readings are more representative of demand over a season of use. **Please check the appropriate units.**

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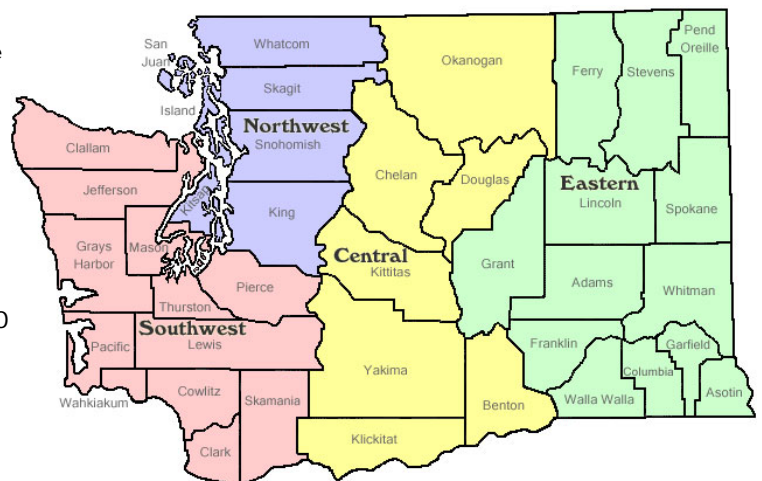
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## Water Use Measurement Form No. 2 - Open Channel Flow

Fill out Form No. 2 ONLY if you have an open channel flow system.

Fill out one form for each measuring device.

Name/Organization: \_\_\_\_\_ Water Right Number(s): \_\_\_\_\_

Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ ☐ (E) ☐ (W) \_\_\_\_\_ (¼) \_\_\_\_\_ (¼ ¼) Govt. Lot \_\_\_\_\_

Measuring Device name or number: \_\_\_\_\_

Please check APPROPRIATE UNITS

Week	Date	Staff Gage Recording ( <input type="checkbox"/> feet, <input type="checkbox"/> other )	Flow ( <input type="checkbox"/> gpm <input type="checkbox"/> cfs <input type="checkbox"/> other )
Start			
January			
February			
March			
April			
May			
June			

Week	Date	Staff Gage Recording ( <input type="checkbox"/> feet, <input type="checkbox"/> other )	Flow ( <input type="checkbox"/> gpm <input type="checkbox"/> cfs <input type="checkbox"/> other )
Start			
July			
August			
September			
October			
November			
December			

Month	Monthly Volume ( <input type="checkbox"/> gallons <input type="checkbox"/> ac-ft <input type="checkbox"/> other )	Month	Monthly Volume ( <input type="checkbox"/> gallons <input type="checkbox"/> ac-ft <input type="checkbox"/> other )	Month	Monthly Volume ( <input type="checkbox"/> gallons <input type="checkbox"/> ac-ft <input type="checkbox"/> other )	Month	Monthly Volume ( <input type="checkbox"/> gallons <input type="checkbox"/> ac-ft <input type="checkbox"/> other )
January		April		July		October	
February		May		August		November	
March		June		September		December	

Total Annual Volume (acre-feet) \_\_\_\_\_ Peak Instantaneous Flow (gpm or cfs) \_\_\_\_\_

Comments: \_\_\_\_\_